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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/608,639	06/30/2000	Yongquin Chen	1-18	9272
75	90 01/29/2003			
Docket Administrator Room 3C 512 Lucent Technologies Inc 600 Mountain Avenue			EXAMINER	
			JACKSON, CORNELIUS H	
P.O. Box 636 Murray Hill, NJ	07974-0636		ART UNIT	PAPER NUMBER
, , , , , , , , , , , , , , , , , , ,			2828	
			DATE MAILED: 01/29/2003	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
اره. ا	09/608,639	CHEN ET AL.				
Office Action Summary	Examiner	Art Unit				
	Cornelius H. Jackson	2828				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespond nc address				
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period work. Failure to reply within the set or extended period for reply will, by statute, - Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). Status	6(a). In no event, however, may a reply be tim within the statutory minimum of thirty (30) days ill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).				
1)⊠ Responsive to communication(s) filed on 13 N	lovember 2002 .					
<u> </u>	s action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4)⊠ Claim(s) <u>1-23</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.		Paul Is				
6)⊠ Claim(s) <u>1-23</u> is/are rejected. PAUL IP						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or election requirement. TECHNOLOGY CENTER 2800						
Application Papers						
9) The specification is objected to by the Examiner.						
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). 11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.						
If approved, corrected drawings are required in reply to this Office action.						
12) The oath or declaration is objected to by the Examiner.						
Priority under 35 U.S.C. §§ 119 and 120						
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) All b) Some * c) None of:						
1.☐ Certified copies of the priority documents have been received.						
Certified copies of the priority documents have been received in Application No						
Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International But * See the attached detailed Office action for a list	reau (PCT Rule 17.2(a)).					
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).						
 a) The translation of the foreign language pro 15) Acknowledgment is made of a claim for domesti 						
Attachment(s)						
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s) 2.	5) Notice of Informal	y (PTO-413) Paper No(s) Patent Application (PTO-152)				
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DETAILED ACTION

Acknowledgment

1. Acknowledgment is made that applicant's Amendment, filed on 05 June 2002, has been entered. Upon entrance of the Amendment, claims 1, 3 and 11 were amended and claims 16-23 were added. Claims 1-23 are now pending in the present application.

Claim Objections

2. Claims 16 and 18 are objected to under 37 CFR 1.75(c), as being of improper dependent form for failing to further limit the subject matter of a previous claim.

Applicant is required to cancel the claim(s), or amend the claim(s) to place the claim(s) in proper dependent form, or rewrite the claim(s) in independent form. To go from at least 50% to at least 40%, broadens the claims limitations, because if you have at the least 50%, you would absolutely have 40%.

Claim Rejections - 35 USC § 112

- 3. The following is a quotation of the second paragraph of 35 U.S.C. 112:
 The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 4. Claim 10 rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. Claim 10 is indefinite because it is unclear as to how the gain medium and the optical waveguide are coupled in the absence of coupling optics.

 Since the gain medium and the optical waveguide are optically coupled, there can be no

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absence of coupling optics because whatever optics used to couple the two elements will be the coupling optics.

Claim Rejections - 35 USC § 102

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 6. Claims 1-23 are rejected under 35 U.S.C. 102(b) as being anticipated by Verdiell et al. (5870417). Verdiell et al. discloses a gain medium 12 comprising an active region 18, a beam expanding region 18A, a first surface having a reflective face 14 and a second surface having an antireflective layer 16; an optical waveguide 20 located adjacent the gain medium 12 and a Bragg grating 22 integral with or coupled to the optical waveguide 20, wherein the gain medium and the optical waveguide exhibit a coupling efficiency which even without the presence of coupling optics located between the gain medium and the optical waveguide is great enough that during laser operation, substantially all optical resonance that occurs is resonance of the cavity defined between the reflective face and the grating and the laser is configured to provide multimode output of at least two modes within the grating, see col. 4, lines 23-54.

Regarding claims 2-7, 9-14, 16, 18, 21 and 23, Verdiell et al. discloses the laser is operated by direct modulation, **see col. 5, lines 1-5**, and in the absence of a temperature-compensating apparatus, **see col. 7, lines 40-50**, the gain medium **12**

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comprises a cavity less than 1 cm in length, see col. 4, lines 16-22, and the length of the system is less than 100 km, see col. 5, line 65-col. 6, line 18.

Regarding claims 8 and 15, Verdiell et al. discloses all the stated limitations, see col. 6, lines 40-45.

Regarding claims 17 and 19, Verdiell et al. discloses all the stated limitations, see col. 7, lines 34-46, and col. 16, lines 28-48.

Regarding claim 20, the method of forming a device is not germane to the issue of patentability of the device itself. Therefore, the rejection used against the device, stands for the method as well.

Regarding claim 22, Verdiell et al. discloses all the stated limitations, see Fig. 1.

Response to Arguments

7. Applicant's arguments with respect to claims 1-15 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

8. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the

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shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Cornelius H. Jackson whose telephone number is (703) 306-5981. The examiner can normally be reached on 8:00 - 5:00, Monday - Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Paul Ip can be reached on (703) 308-3098. The fax phone numbers for the organization where this application or proceeding is assigned are (703)308-7722 for regular communications and (703)308-7721 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703)308-0956.

SUPERVISORY PATENT EXAMINER **TECHNOLOGY CENTER 2800**

January 27, 2003